

Appendix I: Alignment of instant SEQ ID NO: 1 and Q9H4I2, publicly available June 2002

BLASTP 2.2.22+

Reference: Stephen F. Altschul, Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Reference for compositional score matrix adjustment: Stephen F. Altschul, John C. Wootton, E. Michael Gertz, Richa Agarwala, Aleksandr Morgulis, Alejandro A. Schaffer, and Yi-Kuo Yu (2005) "Protein database searches using compositionally adjusted substitution matrices", FEBS J. 272:5101-5109.

RID: KMB3KFZ911R

Query= SID_1
Length=956

Sequences producing significant alignments:	Score (Bits)	E Value
1cl 22739 TrEMBL Q9H4I2 Release 21 01-JUN-2002	1989	0.0

ALIGNMENTS

>1cl|22739 TrEMBL|Q9H4I2|Release 21|01-JUN-2002
Length=956

Score = 1989 bits (5152), Expect = 0.0, Method: Compositional matrix adjust.
Identities = 956/956 (100%), Positives = 956/956 (100%), Gaps = 0/956 (0%)

Query	1	MASKRKSTTPCMIPVKTVVLQDASMEAQPAETLPEGPQQDLPEASAASSEAQNPSSTD	60
Sbjct	1	MASKRKSTTPCMIPVKTVVLQDASMEAQPAETLPEGPQQDLPEASAASSEAQNPSSTD	60
Query	61	GSTLANGHRSTLDGYLYSCKYCDFRSHDMTQFVGHMNSHEDTFNKDPTFVCSGCFLAKT	120
Sbjct	61	GSTLANGHRSTLDGYLYSCKYCDFRSHDMTQFVGHMNSHEDTFNKDPTFVCSGCFLAKT	120
Query	121	PEGLSLHNATCHSGEASFVWNVAKPDNHVVVEQSIPESTSTPDLAGEPSAEGADGQAEII	180
Sbjct	121	PEGLSLHNATCHSGEASFVWNVAKPDNHVVVEQSIPESTSTPDLAGEPSAEGADGQAEII	180
Query	181	ITKTPIMKIMKGAEAKKIHTLKENVPSQPVGEALPKLSTGEMEVREGDHSFINGAVPVS	240
Sbjct	181	ITKTPIMKIMKGAEAKKIHTLKENVPSQPVGEALPKLSTGEMEVREGDHSFINGAVPVS	240
Query	241	QASASSAKNPHAANGPLIGTVPVLPAGIAQFLSLQQQPPVHAQHVVHQPLPTAKALPKVM	300
Sbjct	241	QASASSAKNPHAANGPLIGTVPVLPAGIAQFLSLQQQPPVHAQHVVHQPLPTAKALPKVM	300
Query	301	IPLSSIPTYNAAMDSNSFLKNSFHKFPYPTKAELCYLTVVTKYPEEQLKIWFTAQRLKQG	360
Sbjct	301	IPLSSIPTYNAAMDSNSFLKNSFHKFPYPTKAELCYLTVVTKYPEEQLKIWFTAQRLKQG	360
Query	361	ISWSPEEIEDARKKMFTVIQSVPOPTITVLNTPLASAGNVQHLIQAALPGHVVGQPEG	420

Sbjct	361	ISWSPEEIEDARKKMFNTVIQSVPOPTITVLNTPLVASAGNVQHLIQAALPGHVVGQPEG ISWSPEEIEDARKKMFNTVIQSVPOPTITVLNTPLVASAGNVQHLIQAALPGHVVGQPEG	420
Query	421	TGGGLLVTPQLMANGLOATSSPLPLTVTSVPKQPGVAPINTVCSNTTSAVKVNVNAAQSLL TGGGLLVTPQLMANGLOATSSPLPLTVTSVPKQPGVAPINTVCSNTTSAVKVNVNAAQSLL	480
Sbjct	421	TGGGLLVTPQLMANGLOATSSPLPLTVTSVPKQPGVAPINTVCSNTTSAVKVNVNAAQSLL	480
Query	481	TACPSITSQAFLDASIYKNKKSHEQLSALKGSFCRNQFPQSQSEVEHLTKVTGLSTREVRK TACPSITSQAFLDASIYKNKKSHEQLSALKGSFCRNQFPQSQSEVEHLTKVTGLSTREVRK	540
Sbjct	481	TACPSITSQAFLDASIYKNKKSHEQLSALKGSFCRNQFPQSQSEVEHLTKVTGLSTREVRK	540
Query	541	WFSDDRRYHCRNLKGSRAMIPGDHSSIIIDSVPEVSFSPSSKVPVETCIPTTATLATHPSA WFSDDRRYHCRNLKGSRAMIPGDHSSIIIDSVPEVSFSPSSKVPVETCIPTTATLATHPSA	600
Sbjct	541	WFSDDRRYHCRNLKGSRAMIPGDHSSIIIDSVPEVSFSPSSKVPVETCIPTTATLATHPSA	600
Query	601	KRQSWHQIPDFTPTKYKERAPEQLRALESSFAQNPLPLDEELDRLRSETKMTTREIDSWF KRQSWHQIPDFTPTKYKERAPEQLRALESSFAQNPLPLDEELDRLRSETKMTTREIDSWF	660
Sbjct	601	KRQSWHQIPDFTPTKYKERAPEQLRALESSFAQNPLPLDEELDRLRSETKMTTREIDSWF	660
Query	661	SERRKKVNAEETKKAENASQEEEEAAEDEGGEDLASELRVSGENGSLEMPSSHILAER SERRKKVNAEETKKAENASQEEEEAAEDEGGEDLASELRVSGENGSLEMPSSHILAER	720
Sbjct	661	SERRKKVNAEETKKAENASQEEEEAAEDEGGEDLASELRVSGENGSLEMPSSHILAER	720
Query	721	KVSPKIKNLKRLRVTEANGRNEIPGLGACDPEDDESINKLAELQPGKVSCKKTAQQRHLLR KVSPKIKNLKRLRVTEANGRNEIPGLGACDPEDDESINKLAELQPGKVSCKKTAQQRHLLR	780
Sbjct	721	KVSPKIKNLKRLRVTEANGRNEIPGLGACDPEDDESINKLAELQPGKVSCKKTAQQRHLLR	780
Query	781	QLFVQTQWPSNQDYDSIMAQTGLPRPEVVRWFGDSRYALKNQGLKWYEDYKRGNFPPGGLL QLFVQTQWPSNQDYDSIMAQTGLPRPEVVRWFGDSRYALKNQGLKWYEDYKRGNFPPGGLL	840
Sbjct	781	QLFVQTQWPSNQDYDSIMAQTGLPRPEVVRWFGDSRYALKNQGLKWYEDYKRGNFPPGGLL	840
Query	841	VIAPGNRELLQDYIMTHKMLYEEDLQNLCDKTQMSQQVKQWFAEKMGEETRAVADTGSE VIAPGNRELLQDYIMTHKMLYEEDLQNLCDKTQMSQQVKQWFAEKMGEETRAVADTGSE	900
Sbjct	841	VIAPGNRELLQDYIMTHKMLYEEDLQNLCDKTQMSQQVKQWFAEKMGEETRAVADTGSE	900
Query	901	DQGPGTGELTAVHKMGMDTYSEVSENSESWEPVRPEASSEPFDTSSPQAGRQLETD DQGPGTGELTAVHKMGMDTYSEVSENSESWEPVRPEASSEPFDTSSPQAGRQLETD	956
Sbjct	901	DQGPGTGELTAVHKMGMDTYSEVSENSESWEPVRPEASSEPFDTSSPQAGRQLETD	956